



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 2, 2015

Kelly Rahn  
Regulatory Product Manager  
AMVAC Chemical Corporation  
4695 MacArthur Court, Suite 1200  
Newport Beach, CA 92660

Subject: Label Amendment – Correcting the application rate for walnut.  
Product Name: Ambush 25W Insecticide  
EPA Registration Number: 5481-502  
Application Date: December 3, 2014  
Decision Number: 497983

Dear Ms. Rahn:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Jennifer Gaines at 703-305-5967 or via email at [gaines.jennifer@epa.gov](mailto:gaines.jennifer@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'Kable Bo Davis', enclosed within a hand-drawn oval.

Kable Bo Davis, Product Manager 03  
Invertebrate & Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

**RESTRICTED USE PESTICIDE**

**Due to Toxicity to Fish and Aquatic Organisms**

For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

**AMBUSH® 25W INSECTICIDE**  
**Wettable Powder**

**ACTIVE INGREDIENT:**

**Permethrin**

(3-Phenoxyphenyl)methyl(±)-*cis, trans*-3-(2,2-dichloroethenyl)-  
2,2-dimethylcyclopropanecarboxylate\* .....

25.0%

**OTHER INGREDIENTS:** .....

75.0%

**TOTAL** .....

100.0%

\**Cis/trans* ratio: Min. 35% (±) *cis* and max. 65% (±) *trans*.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

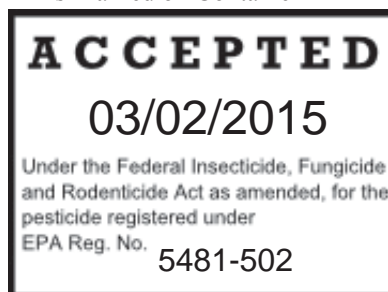
<b>FIRST AID</b>	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>EMERGENCY INFORMATION</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:	
For Medical Emergencies, phone:.....	1-888-681-4261
For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC® .....	1-800-424-9300
For Product Use Information, phone: AMVAC® .....	1-888-462-6822

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 5481-502  
EPA Est. No. 37429-GA-2

Net Weight:  
As Marked on Container

  
4100 E. Washington Blvd.  
Los Angeles, CA 90023 U.S.A.  
1-888-462-6822



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## **PRECAUTIONARY STATEMENTS**

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### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Prolonged or frequently repeated contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product include natural rubber. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves for all handlers except for applicators using motorized ground equipment, pilots, and flaggers
- Shoes plus socks
- Chemical-resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate

See engineering controls for more requirements.

### **USER SAFETY REQUIREMENTS**

- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### **ENGINEERING CONTROLS**

Water-soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d) (4)]. Mixers and loaders using water-soluble packets must:

- Wear the personal protective equipment required in the PPE section of this labeling for mixers and loaders
- Be provided and must have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown, chemical-resistant forward and dust/mist respirators

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (6)].

### **ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

Under some conditions, it may also have a potential for transport into surface water in runoff (primarily adsorbed to suspended soil particles), for several months or more after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

## User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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## DIRECTIONS FOR USE

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### RESTRICTED USE PESTICIDE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

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## FOR ALL APPLICATIONS

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Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application.

Not for use in outdoor residential misting systems.

Apply AMBUSH 25W as shown in "Directions for Application". Use sufficient water to obtain full coverage of foliage. Timing and frequency of applications should be based upon insect populations reaching economic thresholds. The higher rates may be required under conditions of heavy infestation. Crops in this label may be planted immediately after last treatment. Do not plant other crops within 60 days after last application. Any other crop may be planted if it is not harvested or grazed.

**Resistance:** Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your Local or State Agricultural Authorities for details.

If resistance to this product develops in your area, this product or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

## **CHEMIGATION**

### **SPRINKLER IRRIGATION APPLICATION**

Apply AMBUSH 25W Insecticide at rates and timing described elsewhere in this label. Apply with center pivot or continuous-move equipment distributing 1/2 acre-inch or less during treatment. If stationary (solid sets, handlines of wheel lines other than continuous-move) are used, AMBUSH 25W Insecticide should be injected into no more than the last 20 to 30 minutes of the set. Do not apply when winds are greater than 10 to 15 mph to avoid drift or wind skips. Thorough coverage of foliage is required for good control. Good agitation should be maintained during the entire application period.

### **USE PRECAUTIONS-SPRINKLER IRRIGATION APPLICATION**

- A. Apply this product only through sprinkler (including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move) irrigation systems. Do not apply this product through any other type of irrigation system.
- B. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- C. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- D. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- E. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- F. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- G. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- H. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- I. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- J. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- K. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- L. Do not apply through chemigation systems connected to public water systems.

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## **PRECAUTIONS AND RESTRICTIONS**

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### **BUFFER ZONES**

#### **Vegetative Buffer Strip**

Construct and maintain a minimum 10-foot wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing permethrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers:

*Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp.*

<http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf>

#### **Buffer Zone for Ground Application (ground boom, overhead chemigation, or air blast)**

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

#### **Buffer Zone for ULV Aerial Application**

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds)

#### **Buffer Zone for non-ULV Aerial Application**

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds)

### **SPRAY DRIFT REQUIREMENTS**

#### **Wind Direction and Speed**

Only apply this product if the wind direction favors on-target deposition.

Do not apply when the wind velocity exceeds 15 mph.

#### **Temperature Inversion**

Do not make aerial or ground applications into temperature inversions.

Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

#### **Droplet Size**

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

#### **Additional Requirements for Ground Applications**

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For air blast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

#### **Additional Requirements for Aerial Applications**

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS AI/Acre (OZ/Acre)</b>	<b>REMARKS</b>
<b>COLE CROPS - Brassica Leafy Vegetables</b>			
Broccoli	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>a</sup>	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Apply every 5 days or as needed. Do not make applications less than 5 days apart. Do not apply more than 0.8 lb. a.i. per acre per season. Do not apply within 1 day of harvest.
Brussels Sprouts	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>a</sup>	0.05-0.1 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Apply as needed. Do not apply more than 0.4 lb. a.i. per acre per season. Do not make applications less than 5 days apart. Do not apply within 1 day of harvest.
Cabbage	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>a</sup>	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Apply every 5 to 10 days or as needed. Do not make applications less than 5 days apart. Do not apply more than 0.4 (0.8 in HI) lb. a.i. per acre per season. Do not apply within 1 day of harvest.
Cauliflower	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>a</sup>	0.05-0.1 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Apply every 5 days or as needed. Do not make applications less than 5 days apart. Do not apply more than 0.4 (0.6 in HI) lb. a.i. per acre per season. Do not apply within 1 day of harvest.
Chinese Broccoli <sup>b</sup> (gai lon, white flowering)	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>a</sup>	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Apply every 5 days or as needed. Do not make applications less than 5 days apart. Do not apply more than 0.8 lb. a.i. per acre per season. Do not apply within 1 day of harvest.
Chinese Cabbage (Tight-heading varieties only)	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>a</sup>	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Apply every 5 to 10 days or as needed. Do not make applications less than 5 days apart. Do not apply more than 0.4 (0.8 in HI) lb. a.i. per acre per season. Do not apply within 1 day of harvest.
Collards (AR, AZ, GA IL, NC, OK, SC, & TX only)	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>a</sup>	0.05-0.15 (3.2-9.6)	Apply by ground equipment only. Apply in a minimum of 10 gallons of water per acre. Spray using sufficient water to obtain uniform coverage. Do not make applications less than 3 days apart. Do not make more than 8 applications per season or apply more than 0.45 lb. a.i. per acre per season. Do not apply within 1 day of harvest.



<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS AI/Acre (OZ/Acre)</b>	<b>REMARKS</b>
<b>CUCURBIT VEGETABLES</b>			
Cucurbit Vegetables+	Leafminers and Squash Bugs	0.2 (12.8)	Apply by air or ground equipment. Apply a minimum of 4 gallons of finished spray per acre by air or 20 gallons of finished spray per acre with ground equipment. Do not apply more than 1.2 lbs. a.i. per acre per season. Do not make applications less than 7 days apart. AMBUSH 25W may be applied up to harvest.
	Cabbage Looper Cucumber Beetle (adults) Cutworms Melon Worm Pickleworm Plant Bugs (including Lygus and Stink Bugs)	0.1-0.2 (6.4-12.8)	
Cantaloupes	Rindworms and Squash Vine Borer		Do not apply more than 0.8 (1.2 in HI) lbs. a.i. per acre per season. Do not make applications less than 7 days apart.
<b>FRUITING VEGETABLES</b>			
Eggplant	Colorado Potato Beetle Vegetable Leafminer Cabbage Looper Flea Beetle	0.15 (9.6)  0.1-0.15 (6.4-9.6)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain uniform coverage. Do not make applications less than 7 days apart. Do not apply more than 0.6 (1.0 in HI) lb. a.i. per acre per season. Do not apply within 3 days of harvest.
Peppers (Bell)	Vegetable Leafminer Cabbage Looper Flea Beetle Pepper Weevil  European Corn Borer	0.1-0.2 (6.4-12.8)   0.2 (12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain uniform coverage. Do not make applications less than 5 days apart. Do not apply more than 0.8 lb. a.i. per acre per season. Do not apply within 3 days of harvest.
Tomatoes	Tomato Fruitworm Cabbage Looper Tomato Pinworm Vegetable Leafminer Beet Armyworm Southern Armyworm Colorado Potato Beetle Granulate Cutworm Hornworm	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain uniform coverage. Do not apply more than 1.2 lbs. a.i. per acre per season. Can be applied up to the day of harvest. Do not apply as a band. Do not make applications less than 7 days apart. Do not use on tomato varieties in which the mature tomatoes will be less than 1 inch in diameter (such as cherry tomatoes).
<b>LEAFY VEGETABLES</b>			
Leafy Vegetables* (except Brassica)	Vegetable Leafminer Cabbage Looper Cutworm Complex Fall Armyworm Beet Armyworm Corn Earworm Green Cloverworm Leafhoppers European Corn Borer	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Do not make applications less than 3 days apart. Do not apply more than 2.0 lbs. a.i. per acre per season. Can be applied up to 1 day of harvest.  Spinach only - Do not apply more than 0.6 lb. a.i. per acre per season. Do not make applications less than 3 days apart.  Lettuce only – Do not apply more than 0.8 (1.2 in HI) lbs. a.i. per acre per season. Do not make applications less than 7 days apart.

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE LBS AI/Acre (OZ/Acre)	REMARKS
<b>ROOT, TUBER AND BULB VEGETABLES</b>			
Onions (Dry Bulb)	Onion Thrips Armyworms	0.15-0.3 (9.6-19.2)	Apply by air or ground equipment. Apply in a minimum of 20 gallons of water per acre with ground equipment or in a minimum of 6 gallons per acre by air as foliar spray. Begin applications when pests appear and repeat as necessary to maintain control. Use the higher label rates as onion thrip populations increases and avoid rescue situations. Do not make applications less than 7 days apart. Do not apply more than 1.0 lb. a.i. per acre per season. Do not apply within 1 day of harvest.  Garlic – Do not apply more than 0.8 lb. a.i. per acre per season. Do not make applications less than 10 days apart.
Garlic	Cutworms Leafminers	0.1-0.3 (6.4-19.2)	
	Onion Maggots (adult) Stink bugs	0.15-0.2 (9.6-12.8)	
Potatoes	Colorado Potato Beetle Potato Leafhopper Aster Leafhopper Potato Flea Beetle Potato Aphid Potato Tuberworm Potato Psyllid Cabbage Looper	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Do not make applications less than 10 days apart. Do not apply more than 0.8 lb. a.i. per acre per season. Can be applied up to 14 days prior to harvest.
Turnips (FL, GA, IL, IN, OK, SC, TX, WA only)	Cabbage Looper Imported Cabbageworm Diamondback Moth Cabbage Aphid <sup>a</sup>	0.05-0.15 (3.2-9.6)	Apply by ground equipment only. Apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain uniform coverage. Do not make applications less than 3 days apart. Do not make more than 3 applications per season or apply more than 0.45 lb. a.i. per acre per season. Do not apply within 1 day of harvest. Do not graze treated areas or feed crop refuse to livestock.
<b>CEREAL GRAINS</b>			
Field Corn/Popcorn/ Field Corn Grown for Seed (Pre-emergent Use)**	Armyworm Cutworms	0.1-0.15 (6.4-9.6)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Apply in the time period from 5 days prior to planting up to emergence of the crop. Do not make applications less than 7 days apart. Do not apply more than 0.45 lb. a.i. per acre per season.
Field Corn/Popcorn/ Field Corn Grown for Seed (Foliar Use)**	Cutworms European Corn Borer Armyworm Southwestern Corn Borer Flea Beetle Corn Earworm*** Corn Rootworm Beetle*** Tobacco Budworm***  Stalk Borer	0.1-0.15 (6.4-9.6)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre.  Do not make applications less than 7 days apart. Do not apply more than 0.45 lb. a.i. per acre per season. Do not apply within 30 days of harvest of grain or fodder (stover). Forage may be harvested on the day of application.  When treating for stalk borer, AMBUSH 25W must be applied when or shortly before the stalk borer larvae are moving into the corn from surrounding weeds and grasses. Mowing or burndown herbicide is suggested to initiate movement.**

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS AI/Acre (OZ/Acre)</b>	<b>REMARKS</b>
Sweet Corn	Corn Earworm European Corn Borer Fall Armyworm Corn Rootworm Adults Cutworms Aster Leafhopper Flea Beetle <sup>b</sup>	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Apply every 5 days or as needed. Do not apply more than 0.8 lb. a.i. per acre per season. Do not make applications less than 3 days apart. Do not apply within 1 day of harvest of ears or forage or livestock grazing. AMBUSH 25W may be mixed with LANNATE® (methomyl) in accordance with label limitations and precautions. Label dosage rates should not be exceeded.
Sweet Corn (Florida only)	Corn Earworm European Corn Borer Fall Armyworm Southern Armyworm Corn Rootworm Adults Cutworms Aster Leafhopper	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Apply every 5 days or as needed. Do not apply more than 0.8 lb. a.i. per acre per season. Do not make applications less than 3 days apart. AMBUSH 25W may be mixed with LANNATE® (methomyl) in accordance with label limitations and precautions. Label dosage rates should not be exceeded.
<b>TREE CROPS</b>			
Apples	Apple Aphid Redbanded Leafroller Oblique banded Leafroller Plum Curculio White Apple Leafhopper Spotted Tentiform Leafminer Tarnished Plant Bug	0.1-0.25 (6.4-16.0)	Apply by ground equipment only. Apply in a minimum of 25 gallons of water per acre. Spray to wet all foliage. Do not apply after petal fall. Do not apply more than 0.5 lb. per acre per season. Do not make applications less than 10 days apart. Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.
Avocados	Thrips Leafhoppers Mirid bugs Lepidopterous larvae	0.2 (12.8)	Apply by ground equipment only. Apply in a minimum of 25 gallons of water per acre. Spray to wet all foliage. Apply when insects appear and repeat at 7 to 10 day intervals as needed to provide control. Do not make applications less than 5 days apart.  Do not make more than 4 applications per season or apply more than 0.8 lb. a.i. per acre per season. Do not apply within 7 days of harvest.  Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
Cherries	Lesser Peachtree Borer Rose Chafer Green Fruitworm Redbanded Leafroller Plum Curculio Tarnished Plant Bug	0.1-0.2 (6.4-12.8)	Apply by ground equipment only. Apply in a minimum of 25 gallons of water per acre. Apply when insects appear. Do not make applications less than 10 days apart. Do not apply more than 0.6 lb. a.i. per acre per season. Do not apply within 3 days of harvest. Do not graze livestock in treated orchards. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
Filberts	Filbertworm Oblique Banded Leafroller	0.2-0.4 (12.8-25.6)	Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in a minimum of 25 gallons of water per acre. Use sufficient water to obtain uniform coverage. Apply when insects appear. Do not apply more than 1.6 lbs. a.i. per acre per season. Allow a minimum of 10 days between treatments. Do not apply within 14 days of harvest. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.

<b>DIRECTIONS FOR APPLICATION</b>			
<b>CROP</b>	<b>TARGET PESTS</b>	<b>RATE LBS AI/Acre (OZ/Acre)</b>	<b>REMARKS</b>
Papaya (Florida only)	Fruit Fly	0.15 (9.6)	Apply by ground equipment only. Apply in a minimum of 25 gallons of water per acre. Spray to wet all foliage. Do not make more than 5 applications per season or apply more than 0.15 lb. a.i. per acre per season.  Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
Peaches	Peach Twig Borer Oriental Fruit Moth Green Fruitworm Lesser Peachtree Borer Plum Curculio Tarnished Plantbug Rose Chafer	0.1-0.25 (6.4-16.0)	Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in a minimum of 25 gallons of water per acre. Spray to wet all foliage. Can be applied up to 14 days before harvest. Do not apply more than 0.75 lb. a.i. per acre per season. Do not make applications less than 10 days apart. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
Pears (Dormant)	Pear Psylla	0.2-0.4 (12.8-25.6)	Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in a minimum of 25 gallons of water per acre. Use sufficient water to obtain uniform coverage. May be combined with 2 to 8 gallons of spray oil per acre. Apply during the dormant through delayed dormant growth periods only. Do not apply more than 0.65 lb. a.i. per acre per season. Do not make applications less than 10 days apart. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
Pears (Pre-bloom)	Pear Psylla Codling Moth Green Fruitworm	0.2-0.25 (12.8-16.0)	Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in a minimum of 25 gallons of water per acre. Use sufficient water to obtain uniform coverage. Apply two pre-bloom sprays. Pre-bloom sprays can be applied from dormant through bud burst stages. Do not apply more than 0.65 lb. a.i. per acre per season. Do not make applications less than 10 days apart. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
Pistachios	Peach Twig Borer Naval Orangeworm Chinch Bug	0.2-0.4 (12.8-25.6)	Apply by ground equipment only. Apply in a minimum of 25 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Do not apply more than 0.8 lb. a.i. per acre per season. Do not apply after 10 percent hull split. Nuts may be harvested on the day of application. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock.
Walnuts	Navel Orangeworm Codling Moth Walnut Husk Fly	0.2-0.25 (12.8-16.0)	Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in a minimum of 25 gallons of water per acre. Use sufficient water to obtain uniform coverage. Apply when insects appear. Do not apply more than 0.75 lb. a.i. per acre per season. Do not apply within 1 day of harvest. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Do not make applications less than 10 days apart.

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE LBS AI/Acre (OZ/Acre)	REMARKS
<b>OTHER CROPS</b>			
Alfalfa, Alfalfa grown for seed	Alfalfa Caterpillar Armyworms Cutworms Loopers Webworms Potato Leafhopper Blue Alfalfa Aphid <sup>e</sup> Green Peach Aphid Pea Aphid <sup>c</sup> Green Cloverworm Spotted Alfalfa Aphid Velvetbean Caterpillar	0.05-0.2 (3.2-12.8)	Apply by air or ground equipment. Use higher recommended dosage for increased pest pressure or for increased residual pest control. Apply in a minimum of 2 gallons of finished spray per acre by aircraft or 10 gallons of finished spray per acre with ground equipment. Use higher gallonage, 5 to 10 gallons by air, or 20 by ground, finished spray per acre when foliage is dense and/or when pest populations are high. Do not apply more than 0.2 lb. a.i. per cutting. When rates of 0.1 lb. a.i. per acre or less are used, application may be made on day of harvest. When rates greater than 0.1 lb. a.i. per acre are used, do not apply within 14 days of harvest. Do not make applications less than 30 days apart. Avoid application when bees are actively foraging by applying during the early morning or during the evening hours.
	Alfalfa Weevil <sup>c</sup> Egyptian Alfalfa Weevil <sup>c</sup> Cucumber Beetle Meadow Spittlebug Plant Bugs including Lygus spp. <sup>e</sup> Stink Bugs	0.1-0.2 (6.4-12.8)	
Artichokes	Artichoke Plume Moth	0.1-0.3 (6.4-19.2)	Apply by ground equipment only. Apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain uniform coverage. Do not make applications less than 10 days apart. Do not apply more than 0.9 lb. a.i. per acre per season. Buds may be harvested on the day of application.
Asparagus	Cutworm Complex Asparagus Beetle	0.05-0.1 (3.2-6.4)	Apply by ground equipment only. Apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain uniform coverage. Do not make applications less than 7 days apart. Do not apply more than 0.4 lb. a.i. per acre per season. Do not apply within 1 day of harvest.
Mushrooms (Mushroom houses and adjacent premise areas)	Mushroom Flies (Sciarid and Phorid Adults)	Apply 6 oz. <sup>c</sup> to 11 gals. water or 8 level tablespoons to 3 gals. water. As a guide, use 1 gal. spray per 750 sq. ft. (400 to 1,400 sq. ft.)	Spray directly to walls and ceilings as residual surface treatment only. Use of high pressure hand wand prohibited in mushroom houses. Spray to point of runoff. Use AMBUSH 25W prior to filling house, during cool down, during spawning, up to pinning and between breaks. Do not use when mushrooms are present. Treat as needed when flies appear. Do not make more than 20 applications prior to pinning of first break; apply no more than 2 applications between each break. Do not apply more than 30 applications total per crop of 5 breaks. Do not apply within 3 days of harvest. Note: Spoons used for measuring pesticides must not be used for food purposes after use in measuring pesticides.
Soybeans	Green Cloverworm Mexican Bean Beetle Bean Leaf Beetle Cabbage Looper Potato Leafhopper Velvetbean Caterpillar Saltmarsh Caterpillar	0.05-0.1 (3.2-6.4)	Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Applications may be made in vegetable oil at a minimum of 1 qt. oil per acre. Do not make applications less than 10 days apart. Do not apply more than 0.4 lb. a.i. per acre per season. Can be applied up to 60 days before harvest. Do not graze treated areas or harvest for forage or hay.
	Corn Earworm Beet Armyworm Japanese Beetle*** Soybean Looper <sup>d</sup>	0.1-0.2 (6.4-12.8)	

DIRECTIONS FOR APPLICATION			
CROP	TARGET PESTS	RATE LBS AI/Acre (OZ/Acre)	REMARKS
<b>ORNAMENTALS</b>			
Asparagus Fern	Japanese Beetle Asparagus Beetle Lygus Bugs	0.1 (6.4)	Apply to the fern stage of the asparagus plant after spear harvest when larval and adult stage of the asparagus beetle, lygus bugs and the adult stage of the Japanese beetle are present.
Christmas Trees <sup>b</sup> (container and field grown)	Nantucket Pine Tip Moth	0.1-0.2 (6.4-12.8)	Apply first application when adults appear and repeat at 5 to 7 day intervals or as needed throughout the season. Use sufficient water to obtain full coverage of foliage.
Chrysanthemums (Florida only)	Vegetable Leafminer	0.1-0.2 (6.4-12.8)	Apply by ground.
Conifers <sup>b</sup> (container and field grown)	Nantucket Pine Tip Moth	0.1-0.2 (6.4-12.8)	Apply first application when adults appear and repeat at 5 to 7 day intervals or as needed throughout the season. Use sufficient water to obtain full coverage of foliage.
Ornamentals Nursery Stock <sup>b</sup> (field grown)	Beet Armyworm Cabbage Looper Citrus Thrip Heliothis Spp. Leafhoppers Leafminers Whiteflies Cutworms	0.1-0.2 (lbs. a.i./100 gals.)	Marginal leaf burn may occur on Salvia, Dieffenbachia and Pteris Fern. Application to blooming plants may cause browning of petals. Not all species and varieties have been tested. Before treating large numbers of plants of a particular variety, treat a few plants and observe prior to full scale application. Apply to nonbearing plants of fruiting species.
Roses <sup>b</sup> (field grown)	Heliothis Spp.	0.1-0.2 (6.4-12.8)	Apply by air or ground equipment. Apply in a minimum of 2 gallons per acre by air and 10 gallons of finished spray per acre with ground equipment.
Roses <sup>b</sup> (greenhouse)	Beet Armyworm Cabbage Looper Omnivorous Leafroller	8 fl. oz./100 gals. water	AMBUSH 25W is not phytotoxic to the following varieties of greenhouse roses: Ballena, Bettina, Cara Mia, Coquette, Excitement, Forever Yours, G. Wave, Jack Frost, Jr. Bridesmaid, Matador, Paul's Pink, Samantha, Seventeen, Town Crier, Tropicana and Visa. Other varieties may vary in their sensitivity to AMBUSH 25W, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.

NOTE: Do not tank mix AMBUSH® 25W Insecticide with BICEP®, GRAMOXONE® SUPER/GRAMOXONE® EXTRA.

- \* LEAFY VEGETABLES (Except Brassica): Amaranth (leafy amaranth, Chinese spinach, tampala); arrugla (Roquette); Cardoon; celery; Chinese celery; celtuce; chervil; corn salad; chrysanthemum, edible-leaved; chrysanthemum, garland; cress, garden; cress upland (yellow rocket, winter cress); dandelion; dock (sorrel); endive (escarole); fennel, Florence; lettuce (head and leaf); orach; parsley; purslane, garden; purslane, winter; radicchio (red chicory); rhubarb; spinach; spinach, vine (Malabar spinach, Indian spinach); spinach, New Zealand; Swiss chard.
- + CUCURBIT VEGETABLES: Chayote (fruit); Chinese Waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourds, edible (includes hyotan, cucuzza, hechima, Chinese okra); Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); muskmelons, including hybrids such as true cantaloupe, cantaloupe, casaba, creshaw, golden pershaw melon, honeydew melons, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon; pumpkin; squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini, and winter (butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon, including hybrids.
- \*\* AMBUSH 25W may be applied in tank mixtures with the following herbicides in accordance with label limitations and precautions. Label dosage rates should not be exceeded. LASSO®/Atrazine Premix; LASSO® 4E & ME; DUAL® 8E; Atrazine 4L & 80W; BLADDEX® 80W & 4L; PRINCEP®; PRINCEP® CALIBER® 90; 2,4-D; ROUNDUP®, BRONCO®, BANVEL®, EXTRAZINE®.

\*\*\* Not for control of this insect in California.

<sup>a</sup> Aids in suppression.

<sup>b</sup> Currently not registered for use in California.

<sup>c</sup> 1 oz. of this powder equals 5 level teaspoons.

<sup>d</sup> Maximum use rate in California is 0.1 lb. a.i. per acre.

<sup>e</sup> Under heavy insect pressure use 0.2 lbs. a.i. per acre. A second application of alternate chemistry may be necessary to reduce populations below economic thresholds.

<b>RATE CONVERSION CHART</b>		
<b>POUNDS A.I./ACRE</b>	<b>FORMULATION OUNCES/ACRE</b>	<b>FORMULATION LBS./ACRE</b>
0.05	3.2	0.2
0.10	6.4	0.4
0.125	8.0	0.5
0.15	9.6	0.6
0.175	11.2	0.7
0.20	12.8	0.8

### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Do not reuse empty container.

**PESTICIDE STORAGE:** Mix as needed. Do not store diluted material. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, sweep up and remove to chemical waste area.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Dealers must sell in original packages only.

### **LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

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